#2

ENTERED <sup>OIPE</sup>

RAW SEQUENCE LISTING
PATENT APPLICATION:   US/10/082,691

DATE: 03/12/2002 P.6
TIME: 15:17:02

Input Set : A:\D-3018.app
Output Set: N:\CRF3\03122002\J082691.raw

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 3 <110> APPLICANT: Donovan, Stephen
 5 <120> TITLE OF INVENTION: METHODS FOR TREATING INFLAMMATION PAIN
 7 <130> FILE REFERENCE: D-3018
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/082,691
C--> 10 <141> CURRENT FILING DATE: 2002-02-25
12 <160> NUMBER OF SEQ ID NOS: 18
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 11
18 <212> TYPE: PRT
19 <213> ORGANISM: Unknown Organism
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
23        a substance P and is very well known in the art.
25 <220> FEATURE:
26 <221> NAME/KEY: MOD_RES
27 <222> LOCATION: (10)
28 <223> OTHER INFORMATION: Xaa at position 10 is Methionine amide;
30 <300> PUBLICATION INFORMATION:
31 <310> PATENT DOC NO: 5891842
32 <311> PATENT FILING DATE: 1996-04-12
33 <312> PUBLICATION DATE: 1999-04-16
35 <400> SEQUENCE: 1
W--> 36 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Xaa
37      1                5                  10
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 12
42 <212> TYPE: PRT
43 <213> ORGANISM: Unknown Organism
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Unknown Organism: Precursor to
47        substance P, which is very well known in the art.
49 <300> PUBLICATION INFORMATION:
50 <310> PATENT DOC NO: 5891842
51 <311> PATENT FILING DATE: 1996-04-12
52 <312> PUBLICATION DATE: 1999-04-16
54 <300> PUBLICATION INFORMATION:
55 <301> AUTHORs: Shimonka, et al.
56 <303> JOURNAL: J. Neurochem.
57 <304> VOLUME: 52
58 <306> PAGES: 81-92
59 <307> DATE: 1992
61 <400> SEQUENCE: 2
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RAW SEQUENCE LISTING                    DATE: 03/12/2002
PATENT APPLICATION:  US/10/082,691      TIME: 15:17:02

        Input Set : A:\D-3018.app
        Output Set: N:\CRF3\03122002\J082691.raw

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63   1           5               10
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 13
68 <212> TYPE: PRT
69 <213> ORGANISM: Unknown Organism
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
73       a precursor to substance P and is very well known
74       in the art.
76 <300> PUBLICATION INFORMATION:
77 <310> PATENT DOC NO: 5891842
78 <311> PATENT FILING DATE: 1996-04-12
79 <312> PUBLICATION DATE: 1999-04-16
81 <300> PUBLICATION INFORMATION:
82 <301> AUTHORs: Shimonka, et al.
83 <303> JOURNAL: J. Neurochem.
84 <304> VOLUME: 52
85 <306> PAGES: 81-92
86 <307> DATE: 1992
88 <400> SEQUENCE: 3
89 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys
90   1           5               10
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 14
95 <212> TYPE: PRT
96 <213> ORGANISM: Unknown Organism
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
100       a precursor to substance P and is very well known
101       in the art.
103 <300> PUBLICATION INFORMATION:
104 <310> PATENT DOC NO: 5891842
105 <311> PATENT FILING DATE: 1996-04-12
106 <312> PUBLICATION DATE: 1999-04-16
108 <300> PUBLICATION INFORMATION:
109 <301> AUTHORs: Shimonka, et al.
110 <303> JOURNAL: J. Neurochem.
111 <304> VOLUME: 52
112 <306> PAGES: 81-92
113 <307> DATE: 1992
115 <400> SEQUENCE: 4
116 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
117   1           5               10
120 <210> SEQ ID NO: 5
121 <211> LENGTH: 12
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION:  US/10/082,691

DATE: 03/12/2002
TIME: 15:17:02

Input Set : A:\D-3018.app
Output Set: N:\CRF3\03122002\J082691.raw

126 <223> OTHER INFORMATION: Description of Artificial Sequence: This fragment
127       is a carboxy-ester synthetic precursor to
128       substance P.
130 <220> FEATURE:
131 <221> NAME/KEY: MOD_RES
132 <222> LOCATION: (12)
133 <223> OTHER INFORMATION: Xaa at position 12 is Glycine Methyl Ester;
135 <300> PUBLICATION INFORMATION:
136 <310> PATENT DOC NO: 5891842
137 <311> PATENT FILING DATE: 1996-04-12
138 <312> PUBLICATION DATE: 1999-04-16
140 <300> PUBLICATION INFORMATION:
141 <301> AUTHORs: Lee, et al.
142 <303> JOURNAL: Eur. J. Biochem.
143 <304> VOLUME: 114
144 <306> PAGES: 315-327
145 <307> DATE: 1981
147 <300> PUBLICATION INFORMATION:
148 <301> AUTHORs: Pernow, B.
149 <303> JOURNAL: Pharmacol. Rev.
150 <304> VOLUME: 35
151 <306> PAGES: 86-138
152 <307> DATE: 1983
154 <300> PUBLICATION INFORMATION:
155 <301> AUTHORs: Regoli, et al.
156 <303> JOURNAL: TIPS
157 <304> VOLUME: 9
158 <306> PAGES: 290-295
159 <307> DATE: 1988
161 <400> SEQUENCE: 5
W--> 162 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Xaa
163    1              5                    10
166 <210> SEQ ID NO: 6
167 <211> LENGTH: 13
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
173       carboxy-ester synyhetic precursor to substance P.
175 <220> FEATURE:
176 <221> NAME/KEY: MOD_RES
177 <222> LOCATION: (13)
178 <223> OTHER INFORMATION: Xaa at position 13 is Lysine Methyl Ester;
180 <300> PUBLICATION INFORMATION:
181 <310> PATENT DOC NO: 5891842
182 <311> PATENT FILING DATE: 1996-04-12
183 <312> PUBLICATION DATE: 1999-04-16
185 <300> PUBLICATION INFORMATION:
186 <301> AUTHORs: Lee, et al.

RAW SEQUENCE LISTING                    DATE: 03/12/2002
PATENT APPLICATION:   US/10/082,691     TIME: 15:17:02

Input Set : A:\D-3018.app
Output Set: N:\CRF3\03122002\J082691.raw

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187 <303> JOURNAL: Eur. J. Biochem.
188 <304> VOLUME: 114
189 <306> PAGES: 315-327
190 <307> DATE: 1981
192 <300> PUBLICATION INFORMATION:
193 <301> AUTHORs: Pernow, B.
194 <303> JOURNAL: Pharmacol. Rev.
195 <304> VOLUME: 35
196 <306> PAGES: 86-138
197 <307> DATE: 1983
199 <300> PUBLICATION INFORMATION:
200 <301> AUTHORs: Regoli, et al.
201 <303> JOURNAL: TIPS
202 <304> VOLUME: 9
203 <306> PAGES: 290-295
204 <307> DATE: 1988
206 <400> SEQUENCE: 6
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W--> `207 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Xaa`
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208      1           5                  10
211 <210> SEQ ID NO: 7
212 <211> LENGTH: 14
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
218       carboxy-ester synthetic precursor to substance P.
220 <220> FEATURE:
221 <221> NAME/KEY: MOD_RES
222 <222> LOCATION: (14)
223 <223> OTHER INFORMATION: Xaa at position 14 is Arginine Methyl Ester;
225 <300> PUBLICATION INFORMATION:
226 <310> PATENT DOC NO: 5891842
227 <311> PATENT FILING DATE: 1996-04-12
228 <312> PUBLICATION DATE: 1999-04-16
230 <300> PUBLICATION INFORMATION:
231 <301> AUTHORs: Lee, et al.
232 <303> JOURNAL: Eur. J. Biochem.
233 <304> VOLUME: 114
234 <306> PAGES: 315-327
235 <307> DATE: 1981
237 <300> PUBLICATION INFORMATION:
238 <301> AUTHORs: Pernow, B.
239 <303> JOURNAL: Pharmacol. Rev.
240 <304> VOLUME: 35
241 <306> PAGES: 86-138
242 <307> DATE: 1983
244 <300> PUBLICATION INFORMATION:
245 <301> AUTHORs: Regoli, et al.
246 <303> JOURNAL: TIPS
```

RAW SEQUENCE LISTING                          DATE: 03/12/2002
PATENT APPLICATION:   US/10/082,691           TIME: 15:17:02

Input Set : A:\D-3018.app
Output Set: N:\CRF3\03122002\J082691.raw

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      247 <304> VOLUME: 9
      248 <306> PAGES: 290-295
      249 <307> DATE: 1988
      251 <400> SEQUENCE: 7
W--> 252 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Xaa
      253    1               5                   10
      256 <210> SEQ ID NO: 8
      257 <211> LENGTH: 12
      258 <212> TYPE: PRT
      259 <213> ORGANISM: Artificial Sequence
      261 <220> FEATURE:
      262 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
      263         carboxy-ester synthetic precursor to substance P.
      265 <220> FEATURE:
      266 <221> NAME/KEY: MOD_RES
      267 <222> LOCATION: (12)
      268 <223> OTHER INFORMATION: Xaa at position 12 is Glycine Ethyl Ester;
      270 <300> PUBLICATION INFORMATION:
      271 <310> PATENT DOC NO: 5891842
      272 <311> PATENT FILING DATE: 1996-04-12
      273 <312> PUBLICATION DATE: 1999-04-16
      275 <300> PUBLICATION INFORMATION:
      276 <301> AUTHORs: Lee, et al.
      277 <303> JOURNAL: Eur. J. Biochem.
      278 <304> VOLUME: 114
      279 <306> PAGES: 315-327
      280 <307> DATE: 1981
      282 <300> PUBLICATION INFORMATION:
      283 <301> AUTHORs: Pernow, B.
      284 <303> JOURNAL: Pharmacol. Rev.
      285 <304> VOLUME: 35
      286 <306> PAGES: 86-138
      287 <307> DATE: 1983
      289 <300> PUBLICATION INFORMATION:
      290 <301> AUTHORs: Regoli, et al.
      291 <303> JOURNAL: TIPS
      292 <304> VOLUME: 9
      293 <306> PAGES: 290-295
      294 <307> DATE: 1988
      296 <400> SEQUENCE: 8
W--> 297 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Xaa
      298    1               5                   10
      301 <210> SEQ ID NO: 9
      302 <211> LENGTH: 13
      303 <212> TYPE: PRT
      304 <213> ORGANISM: Artificial Sequence
      306 <220> FEATURE:
      307 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
      308         carboxy-ester synthetic precursor to substance P.
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**RAW SEQUENCE LISTING ERROR SUMMARY**      DATE: 03/12/2002
PATENT APPLICATION:   US/10/082,691      TIME: 15:17:03

Input Set : **A:\D-3018.app**
Output Set: **N:\CRF3\03122002\J082691.raw**

<u>**Please Note:**</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1;  Xaa Pos. 11
Seq#:5;  Xaa Pos. 12
Seq#:6;  Xaa Pos. 13
Seq#:7;  Xaa Pos. 14
Seq#:8;  Xaa Pos. 12
Seq#:9;  Xaa Pos. 13
Seq#:10; Xaa Pos. 14
Seq#:14; Xaa Pos. 2,7,9,11
Seq#:15; Xaa Pos. 2,7,9
Seq#:16; Xaa Pos. 2,7,9,11
Seq#:17; Xaa Pos. 2,7,9
Seq#:18; Xaa Pos. 11
```

**VERIFICATION SUMMARY**  
PATENT APPLICATION:  **US/10/082,691**

DATE: 03/12/2002  
TIME: 15:17:03

Input Set : **A:\D-3018.app**  
Output Set: **N:\CRF3\03122002\J082691.raw**

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
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